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(WO/2002/081588) WATER-REPELLENT FILM AND METHOD FOR PREPARING THE SAME, AND INK-JET HEAD AND INK-JET TYPE RECORDING DEVICE USING THE SAME

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Applicants:

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. [JP/JP]; 1006-banchi, Oaza-Kadoma Kadoma-shi, Osaka 571-8501 (JP) (All Except US).

NAKAGAWA, Tohru [JP/JP]; 1-6-3, Nishishibukawa Kusatsu-shi, Shiga 525-0025 (JP) (US Only). HIWATASHI, Tatsuva (JP/JPI: 3-20, Sakurazaka 2-chome, Chuo-ku Fukuoka-shi, Fukuoka 810-0024

(JP) (US Only).

Inventors:

NAKAGAWA, Tohru; 1-6-3, Nishishibukawa Kusatsu-shi, Shiga 525-0025 (JP).

HIWATASHI, Tatsuya; 3-20, Sakurazaka 2-chome, Chuo-ku Fukuoka-shi, Fukuoka 810-0024 (JP).

IKEUCHI SATO & PARTNER PATENT ATTORNEYS: 26th Floor, OAP TOWER, 8-30, Tenmabashi 1-Agent:

chome, Kita-ku Osaka-shi, Osaka 530-6026 (JP),

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WATER-REPELLENT FILM AND METHOD FOR PREPARING THE SAME AND INK-JET HEAD AND Title:

INK-JET TYPE RECORDING DEVICE USING THE SAME

A water-repellent film (1) formed on a solid base material (2), characterized in Abstract:

that it comprises a molecule (A) having at least one siloxane bond (-Si-O-) at both terminals thereof and a hydrocarbon chain in the middle portion thereof and a molecule (B) having a fluorocarbon chain at one terminal and at least one siloxane bond (-Si-O-) at the other terminal, and the molecule (A) and the molecule (B) together form a polymer film; an ink-jet head and an ink-jet type recording device having the water-repellent film. The polymer film is covalently bound with the surface of the solid base material through a siloxane bonding (-Si-O-) and the surface is wholly covered by fluorocarbon chains exhibiting high water repellency, which prevents the entry of an alkaline ion. Accordingly, the water-repellent film does not suffer fracture even when it is contacted with an ink having alkalinity for a long period of time.



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